



**Highway 260 and Main Street**  
**Water Quality Assurance Revolving Fund (WQARF) Site**  
**Cottonwood, Arizona**

**Community Involvement Plan**



**Monitoring activities at a groundwater monitoring well.**

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**Disclaimer:** All telephone numbers, email addresses, and contact names are subject to change after the date of this publication.

## Community Involvement Plan – Introduction

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The Arizona Department of Environmental Quality (ADEQ) is committed to involving citizens in the cleanup of contaminated sites in Arizona, per the Water Quality Assurance Revolving Fund (WQARF) program. Created under the Environmental Quality Act of 1986 to support hazardous substance cleanup efforts in the state, WQARF receives funding from legislative appropriations, cost recovery from responsible parties, corporate income taxes, and special fees.

The WQARF program identifies sites that are in significant need of remediation. Sites added to the WQARF Registry receive primary consideration for the distribution of funds for investigation and cleanup efforts. WQARF sites are assigned a numeric score based on several factors, such as the contaminants present, the location of the contaminants, and the number of people who may be exposed to the contaminants. The score helps determine relative risk at the site; however, scoring does not indicate a direct risk to humans and/or the environment.

Arizona Revised Statutes (A.R.S.) § 49-287.03(B) and § 49-289.03, as well as Arizona Administrative Code (A.A.C.) R18-16-404, specify that a Community Involvement Plan (CIP) be developed for each site before beginning the Remedial Investigation. The purpose of the CIP is to provide a process for two-way communication between ADEQ and the public, in order to keep the community informed regarding the progress of the site investigation and remediation. The CIP will accomplish this goal through the implementation of the following steps:

1. Ensure public access to project information in a timely manner;
2. Identify a Community Involvement Area (CIA) and provide opportunities for community members and other stakeholders to participate in the decision-making process associated with the environmental investigation and remediation of the site;
3. Establish a Community Advisory Board (CAB);
4. Designate an ADEQ spokesperson; and
5. Develop a plan for distributing site information to residents within the CIA

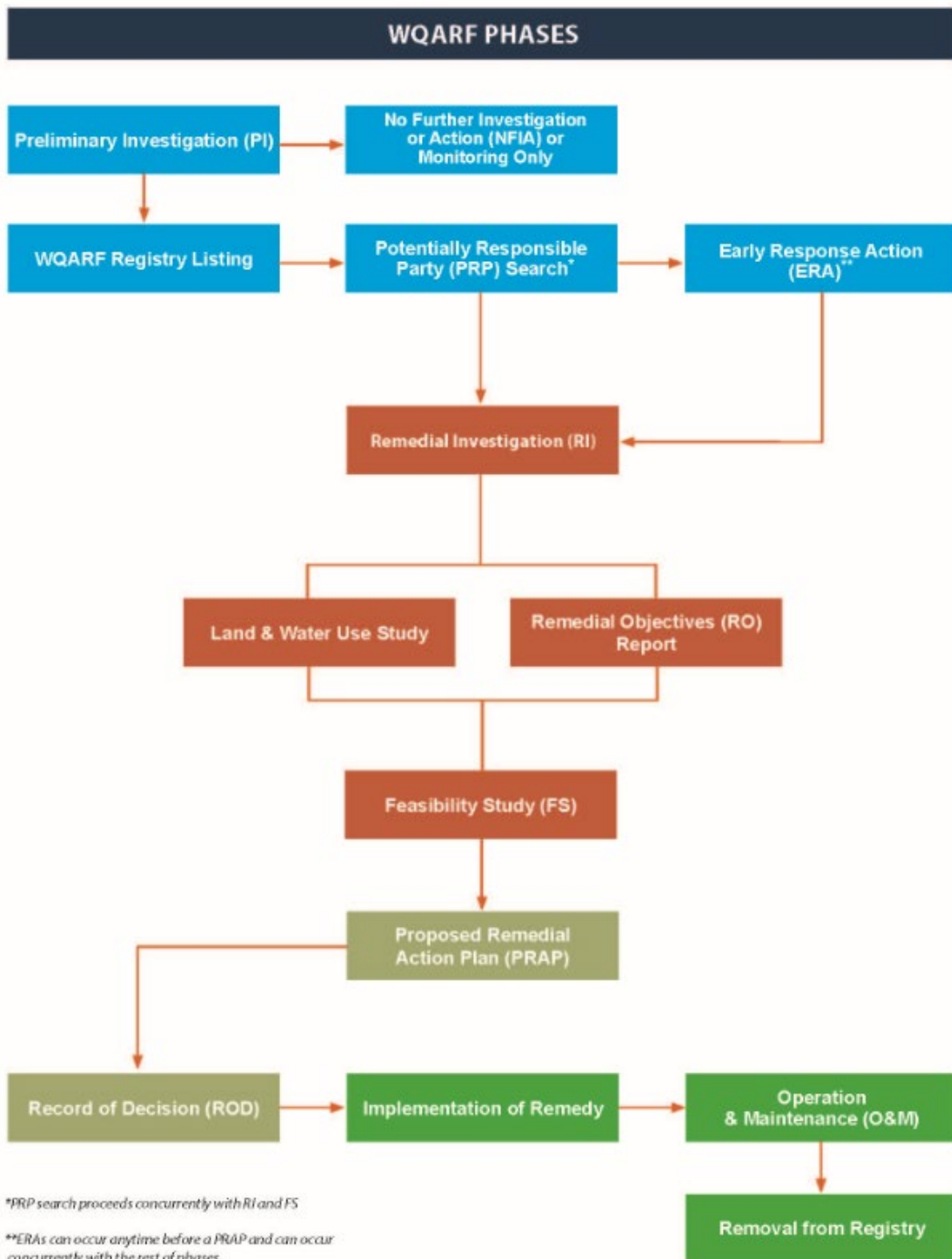
This CIP describes how ADEQ will implement the aforementioned steps for this WQARF site. ADEQ community involvement staff will review and update this plan on a yearly, or as needed, basis, considering site-specific developments and public health and environmental impacts, as well as taking public comments, CAB input, and community concerns into account.

## **A. WQARF Process**

The goal of the WQARF process is to clean up sites with groundwater and/or soil contamination to protect human health and the environment. The WQARF process uses a step-by-step approach to thoroughly investigate contaminated sites and determine the best remedy for achieving site cleanup. The length of these processes and methods of cleanup vary by WQARF site.

For sites with minimal risk to human health, cleanup may include restricting land and/or water use and allowing the contamination to dissipate naturally. For this method, regular groundwater or soil monitoring occurs to ensure that the contamination continues to decrease. For contaminated sites that may pose a risk to human health, the cleanup method may involve restricting land and water use; actively treating or filtering the groundwater to remove contamination; digging up any contaminated soil and removing from the area; bioremediation and other in-situ methods; or a combination of these actions.

The following flow chart depicts each phase of the WQARF process. The WQARF process flow chart is color coded and corresponds to the Community Involvement Action Summary table in Chapter 4. For a detailed definition of each WQARF phase, refer to the glossary.



## **A. Designated Spokesperson**

A designated spokesperson will inform the public of upcoming events, ensure that the CIP is implemented according to schedule, and act as liaison between ADEQ and the community. Additionally, the spokesperson will determine methods for personal contact, arrange for translators at meetings as needed, and coordinate the recording of presentations, when applicable. Contact information for the designated spokesperson for this WQARF site is below.

### **Community Involvement Coordinator**

#### **ADEQ**

1110 West Washington Street, 6<sup>th</sup> Floor

Phoenix, AZ 85007

(602) 771-2336

Or

(800) 234-5677, Ext. 6027712336

Fax: (602) 771-4272

View WQARF Team Contacts Online:

<http://www.azdeq.gov/WQARF>

## **B. Information Repository and Website**

An information repository of public documents pertaining to the Highway 260 and Main Street WQARF site is available for review, both online and in person. Documents in the repository include the WQARF Site Registry Report, CIP, Final Remedial Investigation Report, along with public notices and site fact sheet. Technical documents relating to future milestones in the WQARF process will be made available to the public as they are completed. Interested parties can review site information by visiting the information repository online or in person as follows:

### **Online**

<http://www.azdeq.gov/node/2260>

### **In Person**

ADEQ Records Center

1110 West Washington Street

Phoenix, AZ 85007

(602) 771-4380

Or

(800) 234-5677, Ext. 6027714380

To make alternative arrangements to review documents in person at a location nearest you, contact the ADEQ Community Involvement Coordinator.

## Chapter 1 – Site Overview

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The Highway 260 and Main Street WQARF site is located in Cottonwood, Arizona. The approximate site boundaries are East Mingus Avenue to the north, Mongini Lane to the south, the Verde River to the east, and South 15<sup>th</sup> Street, South Main Street, and Highway 260 to the west.

Site contamination was first discovered in 2005. After a Preliminary Investigation (PI), the site was placed on the WQARF Registry in December 2016 with an eligibility and evaluation score of 40 out of 120. The site contaminants of concern are tetrachloroethene (PCE) and trichloroethene (TCE).

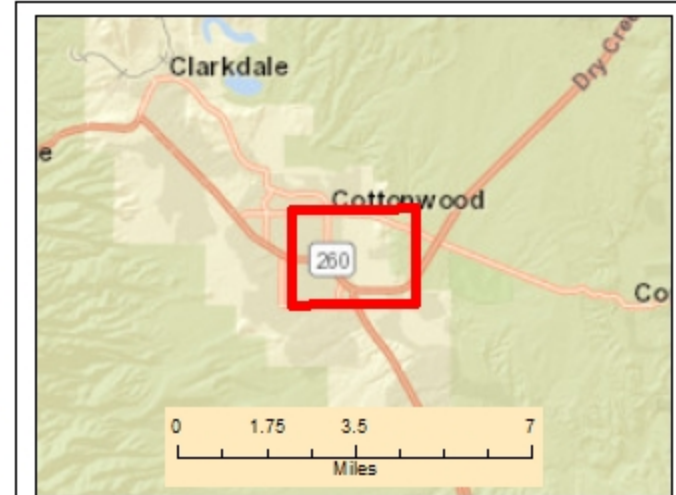
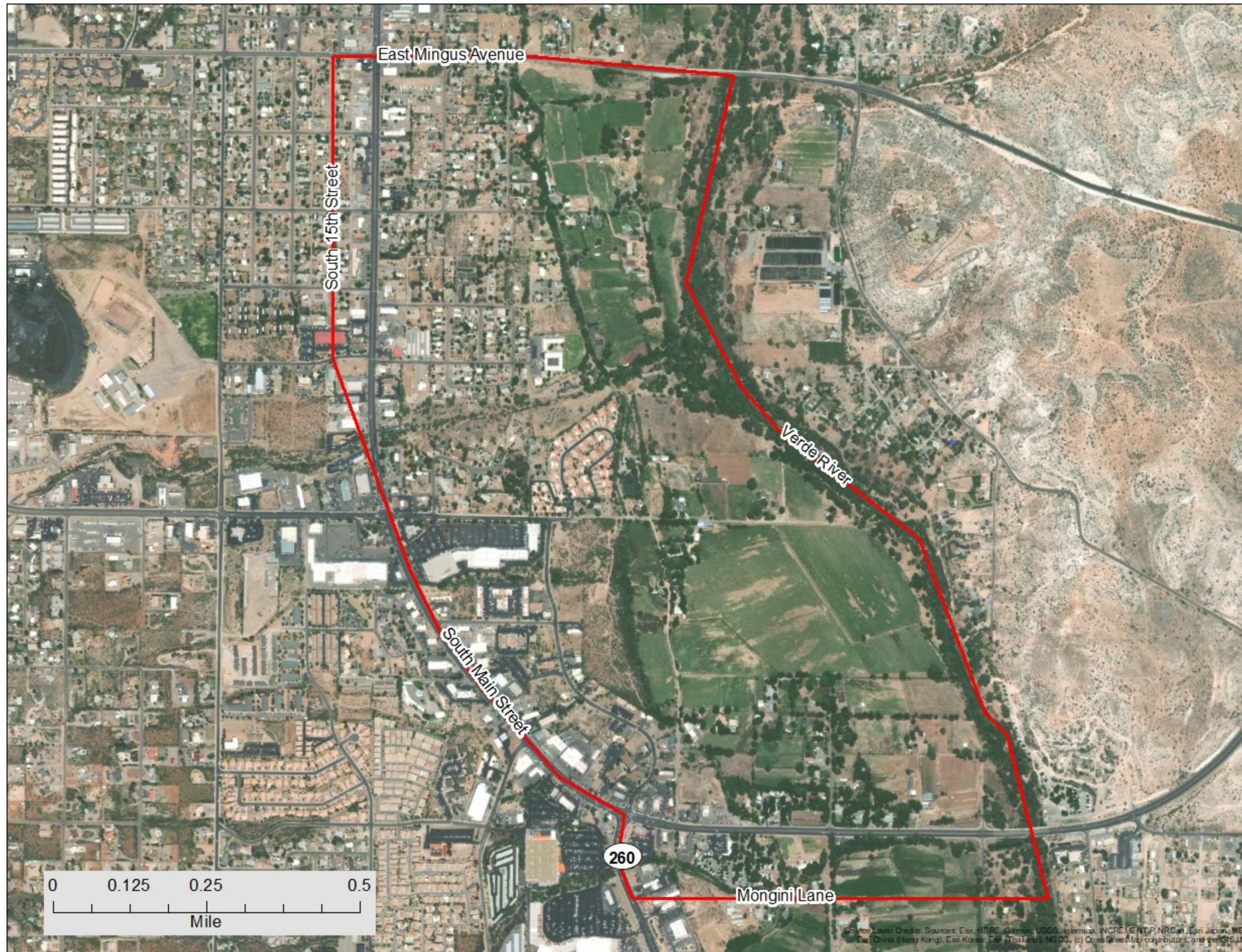
During the PI and the Remedial Investigation (RI), ADEQ installed monitoring wells and sampled private domestic wells at the site. As Early Response Actions (ERAs), ADEQ installed Granular Activated Carbon (GAC) wellhead treatment systems on private domestic wells impacted by PCE and TCE above Aquifer Water Quality Standards. ADEQ continues to sample private domestic wells multiple times each year.

In early 2021, ADEQ released the Draft RI Report, Proposed Remedial Objectives Report, Feasibility Study Work Plan, and the ERA Operation, Maintenance, and Monitoring Manual. The Final RI Report was issued in May 2021. The Feasibility Study is underway to evaluate potential remedial measures and strategies to clean up site contamination.


The following map shows the Highway 260 and Main Street WQARF site boundaries. For a detailed history of the Highway 260 and Main Street WQARF site, refer to Appendix A.



# Highway 260 and Main Street



## Legend

 Area of Investigation

Data Update: July 2018



Boundaries depicted on the site map represent ADEQ's interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of potential contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the area of investigation for this site may change in the future as new information becomes available.

Date Map Saved: 4/29/2021





## Chapter 2 – Community Profile

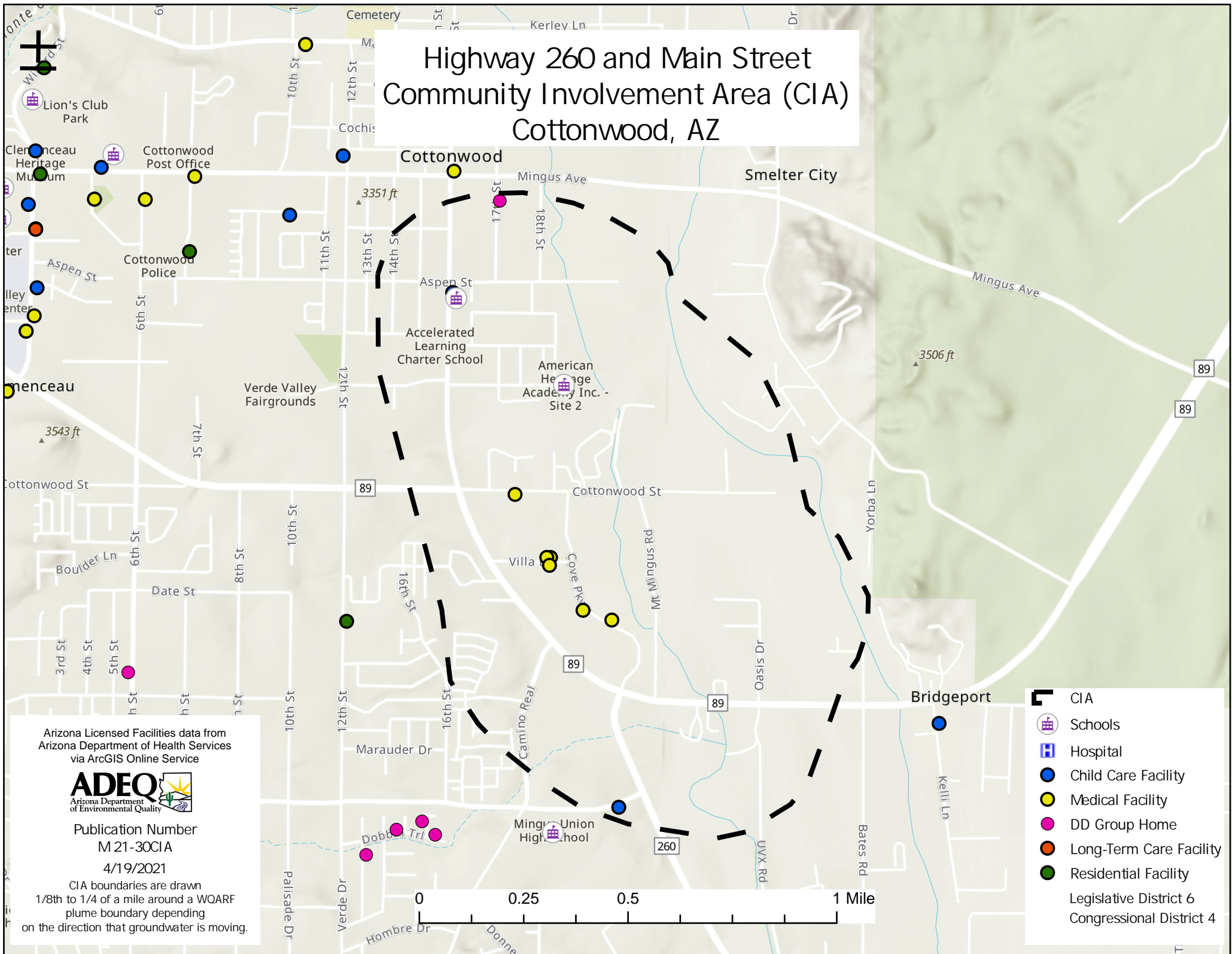
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### **A. Community Involvement Area**

ADEQ establishes a Community Involvement Area (CIA) for each WQARF site per A.R.S. § 49-289.02(A) and (B). A CIA is established to designate a geographic area to which mass mailings will be delivered. Boundaries for the CIA are determined based on site-specific characteristics, such as the affected media (i.e., soil, surface water, or groundwater), exposure routes and proximity to residential areas and public facilities. The CIA may change as new information becomes available.

The map on the following page shows the CIA for the Highway 260 and Main Street WQARF site.

# Highway 260 and Main Street Community Involvement Area (CIA) Cottonwood, AZ



## **B. Community Demographics**

Community demographics help ADEQ understand the community and implement community involvement activities. They also help ADEQ take reasonable measures to provide translation, accommodation, and accessibility services to the community.

The Highway 260 and Main Street WQARF site is located in Cottonwood, Arizona. The City of Cottonwood has an estimated population of 11,959<sup>1</sup>. Approximately 1,858 residents live within the CIA, primarily in zip code 85623. A small section of the CIA is outside of City of Cottonwood boundaries.

ADEQ looks at the community as a whole, with an emphasis on the proportion of residents under age five or above age 65. These populations are considered more vulnerable to the potential health effects associated with exposure to environmental contamination.

The following infographic displays key demographics for the Highway 260 and Main Street WQARF site CIA. For a list of neighborhood associations, community schools, and vulnerable population centers, refer to Appendix B. For local and state elected officials, see Appendix C.

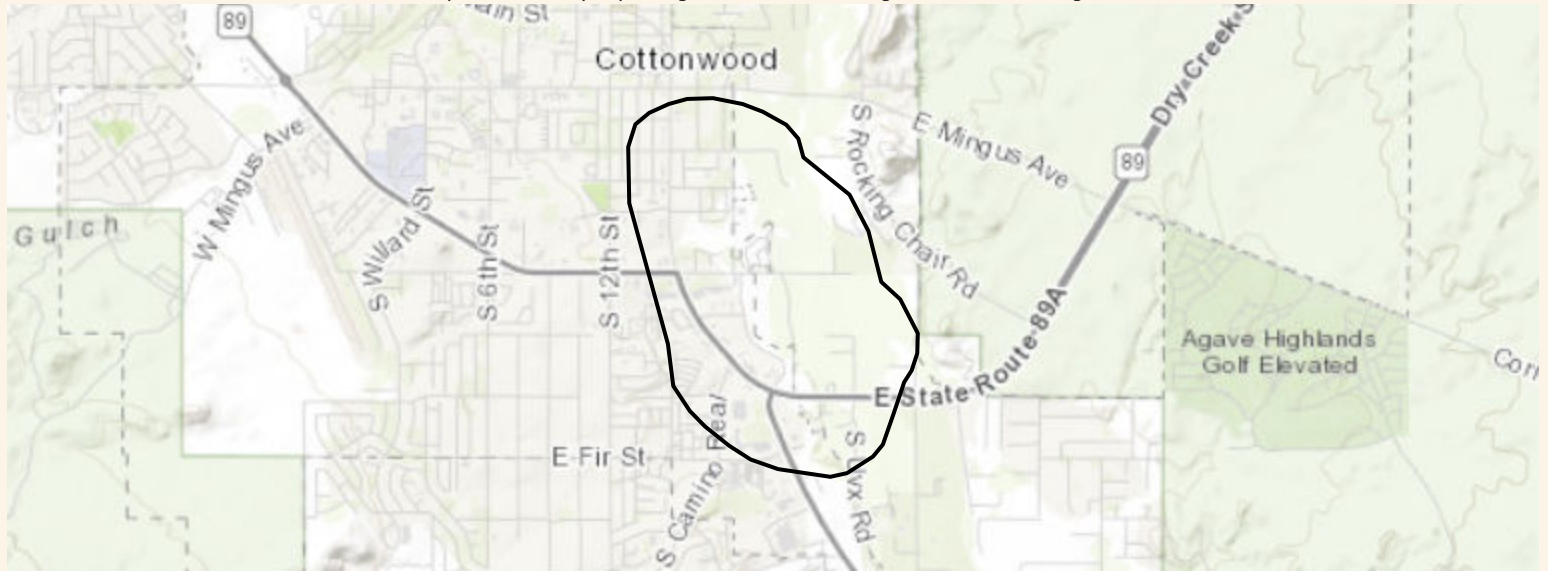
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<sup>1</sup> Source: Arizona Demographics Interactive Map Viewer: <https://geo.azmag.gov/maps/azdemographics/>




# HIGHWAY 260 AND MAIN STREET -- COTTONWOOD, ARIZONA

Community Involvement Areas are drawn 1/8th to 1/4th of a mile around a WQARF plume boundary depending on the direction that groundwater is moving.




## Population and Households 2020

  
1,858  
Total  
Population

  
765  
Total  
Households


  
2.39  
Average Persons  
per Household

  
58%  
Owner  
Occupied

  
42%  
Renter  
Occupied

## Vulnerable Population

  
6%  
Age 0-4

  
26%  
Age 65+

## Race and Ethnicity

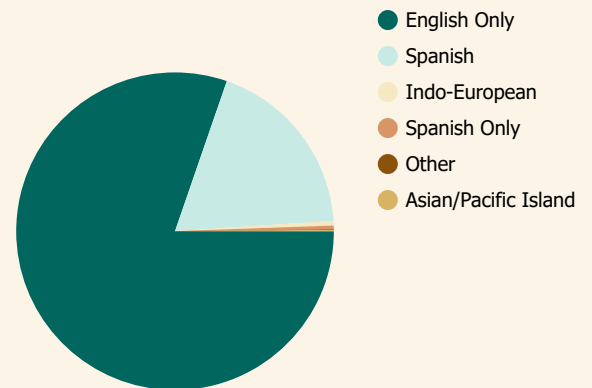
The largest group: White Alone (78.16)

The smallest group: Pacific Islander Alone (0.22)


| Indicator ▲                         | Value | Diff  |  |  |
|-------------------------------------|-------|-------|--|--|
| White Alone                         | 78.16 | +8.51 |  |  |
| Black Alone                         | 0.86  | -4    |  |  |
| American Indian/Alaska Native Alone | 2.1   | -2.48 |  |  |
| Asian Alone                         | 0.91  | -2.71 |  |  |
| Pacific Islander Alone              | 0.22  | 0     |  |  |
| Other Race                          | 15.01 | +1.94 |  |  |
| Two or More Races                   | 2.74  | -1.27 |  |  |
| Hispanic Origin (Any Race)          | 29.6  | -2.58 |  |  |


Bars show deviation from Arizona


## Language Spoken Age 18-65




## 2020 Technology Access

  
83%  
Have a smartphone

  
86%  
Have access to Internet at home

  
44%  
Own any tablet

  
64%  
Household owns a computer

## Chapter 3 – Community Issues and Concerns

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To better understand the community and its concerns, ADEQ conducted telephone interviews in April 2017 with community members who have lived or worked near the Highway 260 and Main Street WQARF site. The following sections summarize common concerns involving the environment, human health, and ADEQ outreach activities.

### A. Environmental and Health Concerns

Interviewee familiarity with the Highway 260 and Main Street WQARF site began with a March 2017 ADEQ mailer. While two interviewees were generally aware of the site's groundwater contamination, there was limited familiarity with the original groundwater contaminant of concern (PCE).

The concerns expressed by community members focused on the safety of their water for drinking and other uses. One interviewee in the healthcare industry was concerned about a possible connection between groundwater contamination and cancer incidence in the area. Additional concerns were related to what caused the groundwater contamination, whether the groundwater contamination will affect the Verde River, and what ADEQ will do to clean up the contamination. The following are specific questions noted by the interviewees:

- Is my well okay to use?
- Is the water at my location safe to drink?
- Is my water safe to use for irrigation purposes, laundry, and showers?
- How fast is the contamination moving? Will the contamination reach my well?
- How will the contamination be cleaned up and how long will it take?

### B. Outreach and Other Concerns

Interviewees provided the following feedback and suggestions on current and future outreach activities for the Highway 260 and Main Street WQARF site:

- Most interviewees preferred to receive information via U.S. mail; only one interviewee preferred email outreach alone.
- Most interviewees found the ADEQ mailer and fact sheet clear and easy to understand; one interviewee noted that the site map was difficult to read.
- Most interviewees did not have previous experience with ADEQ. One interviewee worked with ADEQ as a gas station operation and another interviewee called the ADEQ project manager and community involvement coordinator after receiving the ADEQ mailer.
- Most interviewees stated that U.S. mail would be the best way to advertise public meetings. One interviewee noted a local Facebook page with political and governmental

information could be useful for promoting a public meeting. The local radio and local newspapers were also noted as ways to advertise public meetings.

- Interviewees noted the following possible public meeting locations:
  - Cottonwood Recreation Center
  - Cottonwood Police Department
  - Yavapai County Administrative Services Building
- None of the interviewees noted the need for translation services.

## **C. Response to Community Issues and Concerns**

ADEQ uses the information gathered from community interviews, CAB and public meetings, and direct contact to ensure that future outreach activities and materials address community questions and concerns, as well as keep the community informed of site activities. Additionally, community feedback allows ADEQ to tailor the communication techniques noted in Chapter 4, Section B, and general outreach to the specific needs of the community.



## Chapter 4 – Community Involvement Action Plan

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In addition to providing the framework for the state to investigate and clean up contaminated sites, the WQARF program also requires that ADEQ involve the community in the cleanup process. The following Community Involvement Action Summary describes the required community involvement activities according to each WQARF phase, and illustrates where the Highway 260 and Main Street WQARF site is in the WQARF process at the time of this writing. This summary is followed by a description of the communication vehicles and techniques available for use. Multiple techniques to communicate with and educate the public may be used throughout the process of remediating the WQARF site.

### **A. Community Involvement Action Summary – Required Activities**

The following Community Involvement Action Summary table describes the required community involvement actions for the Highway 260 and Main Street WQARF site and notes regarding what actions have been completed to date. The Community Involvement Action Summary table is color coded to match the WQARF process flow chart in the CIP Introduction.

| Community Involvement Action Summary |  |   |   |          |
|--------------------------------------|--|---|---|----------|
| WQARF Phase                          | Mandated ADEQ Community Involvement Activity<br>(See Chapter 4, Section B, for a detailed description of the applied communications techniques described herein.)  | Statute (A.R.S) and Rule (A.A.C) References   | Activity to Date  | Complete |
| Preliminary Investigation            | Provide owners and operators a copy of the Draft Water Quality Assurance Revolving Fund Site Registry Report for a 15-day comment period prior to publishing a notice in a newspaper announcing the availability of the Draft Site Registry Report for a 30-day public comment period.   | A.R.S. § 49-287.01(C)<br>A.R.S. § 49-289.03(A)(1)   | Mailing to owners and operators, October 2016<br><br>Public notice, <i>The Verde Independent /Camp Verde Bugle</i> , November 9, 2016 | ✓        |
| WQARF Registry Listing               | Following the listing of a site on the Water Quality Assurance Revolving Fund Registry, ADEQ will: <ul style="list-style-type: none"> <li>Establish a preliminary Community Involvement Area (see Chapter 2, Section A) within 90 days of site listing on the Water Quality Assurance Revolving Fund Registry.</li> <li>Provide written notice to the community on hazardous substance contamination in the area, the actual and potential risks and routes of exposure, possible health effects, and the opportunity to join the site mailing list.</li> <li>Identify ADEQ personnel to contact for further information.</li> </ul> | A.R.S. § 49-289.02  | Notice and development of Community Involvement Area, March 24, 2017  | ✓        |
|                                      | Develop a Community Involvement Plan that establishes a Community Advisory Board, designates a spokesperson, provides for newsletters with current information about the status of remedial actions at the site, establishes a public document repository location, and provides for schedules of Community Advisory Board meetings and public meetings. Update the Community Involvement Plan at least every 2 years.   | A.R.S. § 49-287.03(D)<br>A.R.S. § 49-289.03(B)<br>A.R.S. § 49-289.03(C)<br>A.A.C. R18-16-404(C)(1)(i)<br>A.A.C. R18-16-404(C)(1)(j)<br>A.A.C. R18-16-404(C)(1)(k)<br>A.A.C. R18-16-404(C)(1)(o) | Original CIP, May 2017<br><br>Updated CIP, June 2019, May 2021  | ✓        |

| Community Involvement Action Summary |  |  |  |          |
|--------------------------------------|--|--|--|----------|
| WQARF Phase                          | Mandated ADEQ Community Involvement Activity<br>(See Chapter 4, Section B, for a detailed description of the applied communications techniques described herein.)  | Statute (A.R.S) and Rule (A.A.C) References  | Activity to Date   | Complete |
| Early Response Action                | <p>A work plan shall be prepared for each Early Response Action that will include a description of work to be done, known site conditions, a plan for conducting the work; a description of community involvement activities for the Early Response Action under R18-16-404; and a schedule.</p> <p>Community involvement activities may include development of a Community Involvement Plan under A.A.C. R18-16-404(C) or community involvement activities appropriate to the scope and schedule of the work performed such as a public notice to those who may be impacted by field work as indicated in A.A.C. R18-16-404(D)(2).</p> <p>If immediate action is necessary to address a current risk to public health or the environment, to protect a source of water, or to provide a supply of water, the work plan and written rationale may be prepared and the community involvement activities may be conducted after commencement of the Early Response Action.</p> | <p>A.A.C. R18-16-404<br/>A.A.C. R18-16-405(D)(2)<br/>A.A.C. R18-16-405(E)<br/>A.A.C. R18-16-405(G)</p>   | Early Response Action Operation, Maintenance, and Monitoring Manual public notice/comment, February 17, 2021 | ✓        |
| Remedial Investigation               | Provide notice to interested parties announcing the availability of the Remedial Investigation Scope of Work or Work Plan, Fact Sheet, and Community Involvement Plan Outline for review and a 30-day public comment period. Provide notice indicating that any person by written agreement with the ADEQ may develop and implement a work plan for the Remedial Investigation and Feasibility Study and solicit information regarding the current and future land and water uses at the site. <sup>2</sup> These notices shall also provide an opportunity to request a public meeting.   | <p>A.R.S. § 49-287.03(B)<br/>A.R.S. § 49-287.03(C)<br/>A.A.C. R18-16-301(C)<br/>A.A.C. R18-16-403(F)<br/>A.A.C. R18-16-403(G)<br/>A.A.C. R18-16-404(C)(1)(a)<br/>A.A.C. R18-16-406(B)<br/>A.A.C. R18-16-406(D)</p> | Public notice/comment, March 24, 2017  | ✓        |

<sup>2</sup> Data collected from land and water use studies will be incorporated into the Remedial Investigation and/or Remedial Objectives report per A.A.C. R18-16-406(D)-(I).



| Community Involvement Action Summary  |  |  |  |          |
|---------------------------------------|--|--|--|----------|
| WQARF Phase                           | Mandated ADEQ Community Involvement Activity<br>(See Chapter 4, Section B, for a detailed description of the applied communications techniques described herein.)  | Statute (A.R.S) and Rule (A.A.C) References  | Activity to Date   | Complete |
| Remedial Investigation<br>(continued) | <p>Establish a selection committee to choose Community Advisory Board members for the site. The selection committee shall consist of the following number of people from each organization:</p> <ul style="list-style-type: none"> <li>ADEQ: 1</li> <li>Potentially Responsible Party: 1</li> <li>Local Official: 1</li> <li>Local Community: 2</li> </ul>   | A.R.S. § 49-289.03(D)  | Selection committee established May 2018   | ✓        |
|                                       | <p>Establish a Community Advisory Board of between 5 to 20 members that represent a diversified cross section of the community. Within 90 days of appointment by the Community Advisory Board selection committee, the CAB shall elect co-chairpersons and develop a charter defining operating procedures, membership terms and obligations, goals for developing issues, concerns and opportunities related to quick cleanup of the site, and any other anticipated activities for identifying and improving the public's access and understanding of information regarding the remediation process at the site.</p>   | A.R.S. § 49-289.03(C)<br>A.R.S. § 49-289.03(E)<br>A.R.S. § 49-289.03(F)  | Community Advisory Board (CAB) established May 2018  | ✓        |
|                                       | <p>Publish a combined<sup>3</sup> public notice announcing the availability of the Draft Remedial Investigation Report for review and a minimum 30-day public comment period as well as a public meeting to solicit Remedial Objectives for the site. The public meeting shall be held not less than 45 calendar days and not more than 90 calendar days after release of the Draft Remedial Investigation report, unless ADEQ sets a different date for good cause.</p> <p>The draft Remedial Investigation report should be provided to the Community Advisory Board, interested local government agencies, affected water providers, and the Department of Water Resources.</p> | A.A.C. R18-16-301(C)<br>A.A.C. R18-16-404(C)(1)(b)<br>A.A.C. R18-16-406(F)<br>A.A.C. R18-16-406(I)(1)<br>A.A.C. R18-16-406(I)(2) | <p>Draft Remedial Investigation Report public notice/comment, January 10, 2021</p> <p>Remedial Objectives public meeting notice, January 27, 2021</p> <p>Remedial Objectives public meeting, February 25, 2021</p> | ✓        |

<sup>3</sup> If not combined, separate public notices will be provided for the Draft Remedial Investigation/comment period and the Remedial Objectives solicitation and public meeting.

| Community Involvement Action Summary |   |   |   |          |
|--------------------------------------|---|---|---|----------|
| WQARF Phase                          | Mandated ADEQ Community Involvement Activity<br>(See Chapter 4, Section B, for a detailed description of the applied communications techniques described herein.)   | Statute (A.R.S) and Rule (A.A.C) References   | Activity to Date  | Complete |
| Remedial Investigation (concluded)   | <p>Publish a public notice announcing the availability of the Proposed Remedial Objectives Report for a 30-day public comment period.</p> <p>Publish a public notice of the availability of the Final Remedial Investigation Report, which shall contain the results of site characterization and the final Remedial Objectives Report. The final Remedial Investigation report shall be accompanied by responsiveness summaries regarding comments, issues and concerns raised in the community involvement process and, if the report is prepared by a person other than ADEQ, copies of the comments received.</p> | <p>A.A.C. R18-16-301(C)<br/>A.A.C. R18-16-404(C)(1)(c)<br/>A.A.C. R18-16-406(I)(5)<br/>A.A.C. R18-16-406(J)</p> | Proposed Remedial Objectives Report public notice/comment, March 10, 2021 | ✓        |
|                                      |   |   | Final Remedial Investigation Report public notice, May 9, 2021            | ✓        |
| Feasibility Study                    | <p>Provide notice to interested parties announcing the availability of the Feasibility Study Work Plan*</p> <p><i>*Although not mandated, ADEQ will also provide public notice upon completion of the Feasibility Study.</i></p>  | <p>A.A.C. R18-16-404(C)(1)(d)<br/>A.A.C. R18-16-407(B)</p>  | Feasibility Study Work Plan public notice, January 17, 2021               | ✓        |

| Community Involvement Action Summary        |  |   |                                     |          |
|---|--|---|-------------------------------------|----------|
| WQARF Phase                                 | Mandated ADEQ Community Involvement Activity<br>(See Chapter 4, Section B, for a detailed description of the applied communications techniques described herein.)  | Statute (A.R.S) and Rule (A.A.C) References   | Activity to Date                    | Complete |
| Proposed Remedial Action Plan               | Publish a public notice announcing the availability of the Proposed Remedial Action Plan for a 90-day public comment period. Mail the same notice to interested parties. The notice will describe the proposed remedy and its estimated cost and identify where the Proposed Remedial Action Plan, Remedial Investigation, and Feasibility Study Reports may be inspected. | A.R.S. § 49-287.04(B)<br>A.R.S. § 49-289.03(A)(2)<br>A.A.C. R18-16-301(C)<br>A.A.C. R18-16-404(C)(1)(e)<br>A.A.C. R18-16-408(A) |                                     |          |
| Record of Decision                          | Publish a public notice announcing the availability of the Record of Decision and Responsiveness Summary for review.   | A.R.S. § 49-287.04(G)<br>A.A.C. R18-16-404(C)(1)(f)<br>A.A.C. R18-16-410  |                                     |          |
| Implementation of Remedy (Remedial Actions) | Publish a public notice announcing a request for ADEQ to approve remedial actions at the site. The notice will provide the opportunity for a 30-day public comment period.   | A.A.C. R18-16-301(C)<br>A.A.C. R18-16-404(C)(1)(h)<br>A.A.C. R18-16-413   |                                     |          |
|   | Provide notice to the public and interested parties of a request for ADEQ to waive a regulatory requirement (permit) to complete remedial actions.   | A.R.S. § 49-290<br>A.A.C. R18-16-404(C)(1)(l)   |                                     |          |
|   | Provide notice to the public that fieldwork conducted to remove contaminants of concern may result in noise, light, odor, dust or other adverse impacts.   | A.A.C. R18-16-404(C)(1)(m)  | Provided as needed during fieldwork | ✓        |
|   | Provide notice to the public of a request for ADEQ to determine whether each of the Remedial Objectives for a site have been satisfied and will continue to be satisfied. The notice will provide the opportunity for a 30-day public comment period on the request.   | A.A.C. R18-16-301(C)<br>A.A.C. R18-16-404(C)(1)(n)<br>A.A.C. R18-16-416(B)  |                                     |          |

| Community Involvement Action Summary |  |  |  |                |
|--------------------------------------|--|--|--|----------------|
| WQARF Phase                          | Mandated ADEQ Community Involvement Activity<br>(See Chapter 4, Section B, for a detailed description of the applied communications techniques described herein.)  | Statute (A.R.S) and Rule (A.A.C) References                                | Activity to Date                                     | Complete       |
| Operation & Maintenance              | Publish a public notice announcing the availability of the Operation & Maintenance Plan for review and a 30-day public comment period. Mail the same notice to interested parties.                             | A.A.C. R18-16-301(C)<br>A.A.C. R18-16-404(C)(1)(g)<br>A.A.C. R18-16-411(E) |  |                |
| Removal from WQARF Registry          | <i>Although not mandated by Arizona statute or administrative code, ADEQ may publish a public notice upon the removal of the site from the WQARF Registry.</i>   | Not applicable   |  |                |
| Any Phase                            | Publish a public notice announcing a request to ADEQ for a prospective purchaser agreement for property near or in the WQARF site. The notice will provide the opportunity for a 30-day public comment period. | A.R.S. § 49-289.03(A)(3)<br>A.A.C. R18-16-301(C)                           | No prospective purchaser agreement requests to date. | Not applicable |
| Any Phase                            | Publish a public notice announcing the intention of ADEQ to enter into a settlement agreement with a responsible party. The notice will provide the opportunity for a 30-day public comment period.            | A.R.S. § 49-289.03(A)(4)<br>A.A.C. R18-16-301(C)                           | No settlement agreement requests submitted to date.  | Not applicable |



## **B. Community Involvement Action Summary – Communication Techniques**

As previously described in the Community Involvement Action Summary table, there are required communications activities for each phase of the WQARF process. This section describes the specific activities and resources that ADEQ uses and has available to communicate, educate, and help the community and stakeholders be actively involved in the Highway 260 and Main Street WQARF site.

ADEQ will continue to use the following resources to keep stakeholders informed throughout the process:

1. **CAB** – The CAB, with assistance from ADEQ, has been conducting public meeting for the Highway 260 and Main Street WQARF site since May 2018. CAB members advise ADEQ on appropriate means of delivering site information and provide input regarding content. CAB members also serve as information resources for their community. CAB meetings are held at a location and date that are mutually agreed upon by the CAB members and an ADEQ representative. Care is taken to ensure that the location is easily accessible by the public. For a list of current CAB members, see Appendix D.
2. **Local Print Media** – ADEQ will publish all WQARF milestone public notices in the *Verde Independent* and *Camp Verde Bugle*. The Arizona Newspaper Association provides a searchable website for public notices across Arizona newspapers (<http://www.publicnoticeads.com/az/>), including public notices for *The Verde Independent* and *Camp Verde Bugle*. For a list of other media outlets, see Appendix E.
3. **U.S. Mail and Email Lists** – ADEQ maintains U.S. Mail and email address lists for the Highway 260 and Main Street WQARF site. Mailing list addresses are compiled and updated on an ongoing basis through CIP updates; return mailers from fact sheets; open house and/or public meeting attendance lists; and individual requests. These distribution lists will include local and state elected and appointed officials, neighborhood and homeowner association contacts, and schools and vulnerable population centers representing or located within the site's CIA (see Appendices B through D), and other interested parties. Email addresses are gathered through ADEQ website through the subscribe feature. Community members can choose the topics for which to subscribe.
4. **ADEQ Website** – ADEQ's website provides visitors with three areas of information related to the site and is updated on an ongoing basis:
  - **Notices Page** – The notices page provides information regarding WQARF site public notices and comment periods (<http://azdeq.gov/notices>). This information can also be found on the WQARF site information page.
  - **Events Page** – The events page provides information regarding WQARF site public meetings, including CAB meetings (<http://www.azdeq.gov/events>). This information can also be found on the WQARF site information page.

- **WQARF Site Information Page** – The WQARF site information page provides detailed site information and access to the online information repository for the WQARF site, which will include milestone documents (<http://www.azdeq.gov/node/2258>).
- 5. ADEQ Notice Board** – Notice boards are located in ADEQ’s Phoenix and Tucson offices.
  - 6. Public Meetings** – Public meetings or open houses, beyond the CAB meetings, may be scheduled and conducted as needed and as determined by ADEQ (for example, meetings with neighborhood/homeowners’ associations, schools or other community groups).
  - 7. Site Tours** – Tours of the site may be requested and arranged in conjunction with the property owners and in compliance with current laws and regulations by contacting the ADEQ Community Involvement Coordinator.

The following table of Communication Techniques illustrates how these techniques have and will be used throughout the WQARF process for the Highway 260 and Main Street WQARF site.

| Communication Techniques                         |   |  |   |                         |                                      |   |                   |
|--|---|--|---|-------------------------|--------------------------------------|---|-------------------|
| Communications Deliverable                       |   |  | Communications Recipients/Methods               |                         |                                      |   |                   |
| Type <sup>4</sup>                                | Why   | When   | CAB Members                                     | Interested Parties List | ADEQ Website                         | Local Print Media   | ADEQ Notice Board |
| Public Notice                                    | Provide notice of availability of milestone documents, request comments, and solicit input.   | Per mandate (see Community Involvement Action Summary table).  | ✓   | ✓                       | ✓<br>(site, calendar pages)          | ✓<br>( <i>Verde Independent</i> and <i>Camp Verde Bugle</i> ) | ✓                 |
| CAB or Public Meeting Notice/Agenda              | Provide two-way communication about the status of site activities. The notice announces the meeting and provides the agenda.                        | Variable schedule based on level of site activity as scheduled by CAB and ADEQ, with the exception of the required public meetings (see Community Involvement Action Summary table). | ✓   | ✓                       | ✓<br>(site, calendar pages)          | Not applicable  | ✓                 |
| Technical Presentation                           | Provide current information about site activity or related topics.  | At CAB meetings or specially requested public meetings.  | ✓   | Not applicable          | ✓<br>(site, CAB History pages)       | Not applicable  | Not applicable    |
| Technical Milestone Document                     | Provide current technical information about site investigation/remediation activities (e.g., Remedial Investigation (RI), Feasibility Study, etc.). | According to the WQARF process as documents are developed and become available.  | ✓   | Not applicable          | ✓<br>(online information repository) | Not applicable  | Not applicable    |
| Site Fact Sheet/Newsletter                       | Provide current information about site activity.  | Published at the start of the RI and at specific milestones or other times as deemed appropriate by ADEQ and the CAB.  | ✓   | ✓                       | ✓<br>(online information repository) | Not applicable  | Not applicable    |
| Public Meeting to Solicit Remedial Objectives    | Provide forum to solicit Remedial Objectives. (Note that this meeting may be conducted in conjunction with a CAB meeting.)                          | After release of Draft Remedial Investigation Report.  | ✓   | ✓                       | ✓<br>(site, calendar pages)          | ✓<br>( <i>Verde Independent</i> and <i>Camp Verde Bugle</i> ) | ✓                 |
| Public Notice of Prospective Purchaser Agreement | Provide notice of availability and request for comments on a prospective purchaser agreement.   | Per mandate (see Community Involvement Action Summary table).  | ✓   | ✓                       | ✓<br>(site, calendar pages)          | ✓<br>(newspaper of general circulation in Yavapai County)     | ✓                 |
| Public Notice of Settlement Agreement            | Provide notice of availability and request comments on the intention of ADEQ to enter into a settlement agreement with a responsible party.         | Per mandate (see Community Involvement Action Summary table).  | ✓   | ✓                       | ✓<br>(site, calendar pages)          | ✓<br>(newspaper of general circulation in Yavapai County)     | ✓                 |
| Site Tour  | Provide walking or driving tour of the site to observe current site conditions and the surrounding community and environment.                       | If requested, and with cooperation of current property owners.   | Contact ADEQ Community Involvement Coordinator. |                         |                                      |   |                   |

<sup>4</sup> Communications deliverables may be translated into Spanish if deemed necessary or requested.

## C. Other Resources and Contacts

In addition to the designated spokesperson and information repository identified at the beginning of this CIP, the appendices provide additional resources and contact information for the public to use as desired.

- **Appendix A** provides a history of major activities by year at the Highway 260 and Main Street WQARF site.
- **Appendix B** provides a list of targeted communities in the Highway 260 and Main Street WQARF site CIA. These include neighborhood associations, community schools, and vulnerable population centers that are in or near the CIA.
- **Appendix C** provides a table of local and state elected officials, by district, who represent communities within the CIA. Note that some districts may encompass more of the CIA than others.
- **Appendix D** provides a list of current Highway 260 and Main Street WQARF site CAB members.
- **Appendix E** provides a list of media outlets in the area. All future public notices for the Highway 260 and Main Street WQARF site can be found in *The Verde Independent* and *Camp Verde Bugle* or by searching the Arizona Newspaper Association's public notice website (<http://www.publicnoticeads.com/az/>)
- **Appendix F** provides a list of other state and local agencies that may be of interest to the public.
- **Appendix G** provides a list of parties that have requested and received prospective purchaser agreements from ADEQ for property in and around the Highway 260 and Main Street WQARF site.
- **Appendix H** provides a list of parties that have consent decree settlements with ADEQ pertaining to the Highway 260 and Main Street WQARF site.



## Appendix A – Site History

The following presents a site history for the Arizona Department of Environmental Quality (ADEQ) Highway 260 and Main Street Water Quality Assurance Revolving Fund (WQARF) site.

- 2005 In August, owners of the Swanson RV Park filed a complaint with ADEQ regarding tetrachloroethene (PCE) in a drinking water well. PCE was detected in their well water at a concentration of 8.5 micrograms per liter ( $\mu\text{g/L}$ ), which is above the Arizona Aquifer Water Quality Standards (AWQS) of 5  $\mu\text{g/L}$ . ADEQ began an investigation to identify potential sources of the PCE in groundwater.
- 2006–2007 Groundwater and soil gas sampling identified two potential source areas: the former Cottonwood Cleaning & Bridal Boutique on Main Street and Aspen Street (North Source Area) and Cottonwood Quality Dry Cleaning on Main Street and Camino Real (South Source Area). The groundwater investigations detected PCE at concentrations up to 340  $\mu\text{g/L}$  in groundwater and 1,200 micrograms per cubic meter ( $\mu\text{g/m}^3$ ) in soil gas near the North Source Area. Similarly, PCE was found at concentrations up to 170  $\mu\text{g/L}$  in groundwater and 450  $\mu\text{g/m}^3$  in soil gas near the South Source Area.
- 2008 Site activities paused due to a significant reduction in staff and funding across all ADEQ programs, including WQARF.
- 2015 ADEQ re-initiated the site's Preliminary Investigation (PI). Additional groundwater investigations found PCE, trichloroethene (TCE), and *cis*-1,2-dichloroethene (*cis*-1,2-DCE) in several wells across the site. Only PCE was detected above the AWQS in two private domestic wells, at concentrations of 8.6 and 20  $\mu\text{g/L}$ . The former was detected in a mobile home park well supplying water to 14 residences and the latter was a private domestic well serving a single residence.
- 2016 The Highway 260 and Main Street site was placed on the WQARF Registry on December 12 with an eligibility and evaluation score of 40 out of 120.
- 2017–2019 ADEQ conducted a Remedial Investigation (RI) to assess the extent of contamination and identify impacted receptors. ADEQ regularly sampled private domestic wells to monitor for site contaminants. Three Granular Activated Carbon (GAC) wellhead treatment systems were installed on private domestic wells as part of Early Response Actions (ERAs) to prevent exposure to site contaminants. Bottled water was provided to residents without another source of clean drinking water until the GAC wellhead treatment systems could be installed.
- 2020 ADEQ completed the RI. Six groundwater monitoring wells and four soil vapor monitoring/extraction wells were installed to collect additional data needed for the Feasibility Study (FS). A soil vapor extraction (SVE) pilot test and an Enhanced

Reductive De-chlorination (ERD) pilot test were conducted in the North Source Area. ADEQ sampled more than 50 private domestic wells on a quarterly basis and installed three additional wellhead treatment systems as part of ERAs.

2021 ADEQ released the Draft RI Report, FS Work Plan and ERA Operation, Maintenance, and Monitoring Manual in early 2021. After soliciting Remedial Objectives (ROs) from the public, ADEQ released the Proposed ROs Report in March, and Final RI Report in May. Additional SVE pilot testing was conducted in the South Source Area as well as expanded ERD pilot testing in the North Source Area. ADEQ began preparing the FS to evaluate potential remedial measures and strategies to clean up site contamination. Five GAC wellhead treatment systems were installed on private domestic wells with PCE detections above AWQS. Private domestic wells continue to be sampled frequently to monitor detections of PCE across the site.

## **Appendix B – Targeted Communities**

### **A. Neighborhood Associations**

There are no neighborhood associations within the Highway 260 and Main Street Water Quality Assurance Revolving Fund (WQARF) site Community Involvement Area (CIA); however, the following RV Park was identified within the CIA.

**Turquoise Triangle RV Park** (928) 634-5294  
2501 East State Route 89-A, Cottonwood, AZ 86326  
<http://turquoisetrianglervpark.com/index.html>

### **B. Community Schools**

The following list presents the community schools within or near the Highway 260 and Main Street WQARF site CIA.

**American Heritage Academy – Cottonwood Campus** (928) 634-2144  
2030 East Cherry Street, Cottonwood, AZ 86326  
<https://ahacottonwood.org/>

**Cupertino Academy** (928) 212-1262  
2715 East State Route 89-A, Cottonwood, AZ 86326  
<https://cupertinoaz.org>

**Ed Options Cottonwood Learning Center** (602) 312-2519  
1500 East Hombre Drive, Cottonwood, AZ 86326  
<https://eohighschool.com/location/cottonwood-learning-center>

**Mingus Union High School** (928) 634-7531  
1801 East Fir Street, Cottonwood, AZ 86326  
<https://mingusunion.com>

## **C. Vulnerable Population Centers**

The following list presents the vulnerable population centers in the Highway 260 and Main Street WQARF site CIA, including childcare and assisted living facilities.

**Aviant Hospice Yavapai** (928) 634-1073  
1756 East Villa Drive, Suite C-17, Cottonwood, AZ 86326

**Beginnings Birth and Wellness Center** (928) 634-8680  
703 South Main Street, Suite 4, Cottonwood, AZ 86326  
<https://beginningsbirth.com/>

**DaVita Cottonwood Dialysis** 1(800) 424-6589  
1699 East Cottonwood Street, Suite A200, Cottonwood, AZ 86326

**Hilltop Christian Preschool** (928) 634-7759  
2021 East Fir Street, PO Box 3732, Cottonwood, AZ 86326  
<http://www.cottonwoodfaithlutheran.org/7922.html>



## Appendix C – Local and State Elected Officials

The Highway 260 and Main Street WQARF site Community Involvement Area is within the City of Cottonwood (no districts specified), Yavapai County Supervisorial District 3, and Arizona Legislature District 6.

| <b>CITY<br/>Officials</b>   | <b>COUNTY<br/>Board of Supervisors</b>  | <b>STATE<br/>Representatives</b>  | <b>STATE<br/>Senators</b>  |
|---|---|---|--|
| City Hall<br>827 N. Main St.<br>Cottonwood, AZ 86326<br>(928) 340-5526  | Yavapai County<br>Administrative Services -<br>Cottonwood Annex<br>10 S. 6 <sup>th</sup> St.<br>Cottonwood, AZ 86326<br>(928) 639-8100                                  | Arizona House of<br>Representatives<br>Capitol Complex<br>1700 W. Washington St.<br>Phoenix, AZ 85007<br>(602) 926-4221                                       | Arizona State Senate<br>Capitol Complex<br>1700 W. Washington St.<br>Phoenix, AZ 85007<br>(602) 926-3559                                       |
| <b>Mayor</b><br><b>Tim Elinski</b><br>(928) 340-2725<br><a href="mailto:telinski@cottonwoodaz.gov">telinski@cottonwoodaz.gov</a>              | <b>County Supervisor</b><br>District 3<br><b>Dr. Donna Michaels</b><br>(928) 649-6227<br><a href="mailto:web.bos.district3@yavapai.us">web.bos.district3@yavapai.us</a> | <b>Representative</b><br>District 6<br><b>Walter Blackman</b><br>Room # 345<br>(602) 926-3043<br><a href="mailto:wblackman@azleg.gov">wblackman@azleg.gov</a> | <b>Senator</b><br>District 6<br><b>Wendy Rogers</b><br>Room #304<br>(602) 926-3042<br><a href="mailto:wrogers@azleg.gov">wrogers@azleg.gov</a> |
| <b>Vice Mayor</b><br><b>Doug Hulse</b><br>(928) 821-2324<br><a href="mailto:dhulse@cottonwoodaz.gov">dhulse@cottonwoodaz.gov</a>              |   | <b>Representative</b><br>District 6<br><b>Brenda Barton</b><br>Room # 309<br>(602) 926-3421<br><a href="mailto:bbarton@azleg.gov">bbarton@azleg.gov</a>       |  |
| <b>City Manager</b><br><b>Ron Corbin</b><br>(928) 634-5526<br><a href="mailto:rcorbin@cottonwoodaz.gov">rcorbin@cottonwoodaz.gov</a>          |   |   |  |
| <b>Council Member</b><br><b>Tosca Henry</b><br>(928) 274-9696<br><a href="mailto:thenry@cottonwoodaz.gov">thenry@cottonwoodaz.gov</a>         |   |   |  |
| <b>Council Member</b><br><b>Michael Mathews</b><br>(928) 239-0122<br><a href="mailto:mmathews@cottonwoodaz.gov">mmathews@cottonwoodaz.gov</a> |   |   |  |
| <b>Council Member</b><br><b>Debbi Wilden</b><br>(928) 340-2725<br><a href="mailto:dwilden@cottonwoodaz.gov">dwilden@cottonwoodaz.gov</a>      |   |   |  |
| <b>Council Member</b><br><b>Helaine Kurot</b><br>(928) 593-0916<br><a href="mailto:hkurot@cottonwoodaz.gov">hkurot@cottonwoodaz.gov</a>       |   |   |  |
| <b>Council Member</b><br><b>Jackie Nairn</b><br>(928) 340-2725<br><a href="mailto:jnairn@cottonwoodaz.gov">jnairn@cottonwoodaz.gov</a>        |   |   |  |

## Appendix D – Community Advisory Board Members

The following table presents the Highway 260 and Main Street Water Quality Assurance Revolving Fund (WQARF) site Community Advisory Board (CAB) members as of this writing.

| <b>Highway 260 and Main Street<br/>WQARF Site<br/>CAB Co-Chairs</b>  |   |
|--|---|
| <b>Debbie Breitreutz</b><br>(928) 300-2277<br><a href="mailto:dbreitreutz@cottonwoodaz.gov">dbreitreutz@cottonwoodaz.gov</a> | <b>Bill Wade</b><br>(928) 634-7994<br><a href="mailto:bill@wadecol.com">bill@wadecol.com</a>  |
| <b>CAB Members</b>   |   |
| <b>Peter Andrew Groseta</b><br>(928) 634-7872<br><a href="mailto:wdartranch@qwestoffice.net">wdartranch@qwestoffice.net</a>  |   |
| <b>David Mongini</b><br>(928) 634-3122<br><a href="mailto:Davidmongini55@gmail.com">Davidmongini55@gmail.com</a>             | <b>Melissa Mongini-Franklin</b><br>(928) 848-4858<br><a href="mailto:melissa@serenitytherapeuticsllc.com">melissa@serenitytherapeuticsllc.com</a> |

## **Appendix E – Media Outlets**

The following list presents City of Cottonwood media outlets that may be used by the public and Community Advisory Board members to promote information on the Highway 260 and Main Street Water Quality Assurance Revolving Fund site. The *Verde Independent* and *Camp Verde Bugle* are the external media outlet that the Arizona Department of Environmental Quality uses to publish all public notices related to the site.

### **A. Newspapers and Magazines**

|   |                |
|---|----------------|
| <b>Camp Verde Bugle</b><br>281 South 3 <sup>rd</sup> Street, Camp Verde, AZ 86322 | (928) 567-4101 |
| <b>The Verde Independent</b><br>116 South Main Street, Cottonwood, AZ 86326       | (928) 634-2241 |

### **B. Radio**

|   |                |
|---|----------------|
| <b>Yavapai Broadcasting</b> (KKLD, KVRD, KYBC, KQST, KVNA)<br>3405 East State Route 89A, Cottonwood, AZ 86326 | (928) 634-2286 |
| <b>Jack FM 94.7</b> (KPPV)<br>1756 East Villa Drive, Suite 2C, Cottonwood, AZ 86326                           | (800) 264-5449 |

### **C. Television**

|   |                |
|---|----------------|
| <b>AZ Family</b> (KTVK, KPHO)<br>5555 North 7 <sup>th</sup> Avenue, Phoenix, AZ 85013 | (602) 207-3333 |
| <b>KAET Channel 8</b> (PBS)<br>555 North Central Avenue, Suite 500, Phoenix, AZ 85004 | (602) 496-8888 |
| <b>KNXV Channel 15</b> (ABC)<br>515 North 44 <sup>th</sup> Street, Phoenix, AZ 85008  | (602) 273-1500 |
| <b>KPNX Channel 12</b> (NBC)<br>200 East Van Buren Street, Phoenix, AZ 85004          | (602) 257-1212 |
| <b>KSAZ Channel 10</b> (FOX)<br>511 West Adams Street, Phoenix, AZ 85003              | (602) 257-1234 |

## **Appendix F – Related Agencies and Contact Information**

The following list presents additional resources the public and Community Advisory Board members may use to address concerns or questions related to the Highway 260 and Main Street Water Quality Assurance Revolving Fund site.

### **State of Arizona**

#### **Arizona Department of Agriculture**

1688 West Adams Street  
Phoenix, AZ 85007  
Phone: (602) 542-4373

#### **Arizona Department of Health Services**

150 North 18<sup>th</sup> Avenue  
Phoenix, AZ 85007  
Phone: (602) 542-1025

#### **Arizona Department of Water Resources - Groundwater Permitting and Wells Section**

1110 West Washington Street, Suite 310  
Phoenix, AZ 85012  
Phone: (602) 771-8527

### **City of Cottonwood**

#### **Cottonwood Water Resources Department**

827 North Main Street  
Cottonwood, AZ 86326  
Phone: (928) 340-2737

#### **Cottonwood Utilities Department**

111 North Main Street  
Cottonwood, AZ 86326  
Phone: (928) 634-0186

### **Other**

#### **Agency for Toxic Substances and Disease Registry**

Western Branch – Region 9  
75 Hawthorne Street, Suite 9410, M/S:HHS-1  
San Francisco, CA 94105  
Phone: (800) 232-4636

**Real Estate Seller Disclosures**

Arizona Association of Realtors

255 East Osborn Road

Phoenix, AZ 85012

Phone: (602) 24-7787

<http://www.aaronline.com/wp-content/uploads/2017/01/Residential-Sellers-Property-Disclosure-Statement-SPDS REV 01Oct2017.pdf>

**Sedona Verde Valley Association of Realtors**

859 Cove Parkway

Cottonwood, Arizona 86326

Phone: (928) 282-5409

<http://svvar.com/>

## **Appendix G – Prospective Purchaser Agreements**

No parties have requested or received prospective purchaser agreements from the Arizona Department of Environmental Quality for properties in or around the Highway 260 and Main Street Water Quality Assurance Revolving Fund site as of this writing.



## **Appendix H – Settlements**

No parties have entered into consent decree settlements with the Arizona Department of Environmental Quality for properties in or around the Highway 260 and Main Street Water Quality Assurance Revolving Fund site as of this writing.

## Acronyms and Glossary of Terms

**Aquifer:** An underground rock formation composed of such materials as sand, soil, or gravel, that can store groundwater and supply it to wells and springs. In aquifers, groundwater occurs in sufficient quantities to be used for drinking water, irrigation, and other purposes.

**Aquifer Water Quality Standard (AWQS):** State of Arizona maximum levels for contaminants that apply to groundwater in aquifers designated for drinking water use. For example, the AWQS for tetrachloroethene (PCE) is 5 parts per billion (µg/L).

**Arizona Administrative Code (A.A.C.):** Official rules of the State of Arizona. The *Code* is the official compilation of rules that govern state agencies, boards, and commissions.

**Arizona Department of Environmental Quality (ADEQ):** ADEQ is the executive agency of the Arizona State Government mandated to enforce and administer the state's environmental laws and regulations.

**Arizona Revised Statutes (A.R.S.):** State laws adopted by the Arizona State Legislature.

**cis-1,2-Dichloroethene (cis-1,2-DCE):** An odorless organic liquid that has two slightly different forms, a "cis" form and a "trans" form. Both the cis and trans forms (typically as a mixture) are used as a solvent for waxes and resins, in the extraction of rubber, as a refrigerant, in the manufacture of pharmaceuticals and artificial pearls, in the extraction of oils and fats from fish and meat, and in making other organics.

**Cleanup:** Actions taken that deal with a release or threat of a release of hazardous substances that could adversely affect public health and/or the environment. The word "cleanup" is sometimes used interchangeably with the terms remedial action, removal action, response action, remedy, remediation, or corrective action.

**Community Advisory Board (CAB):** A diverse group of community members interested in or affected by the presence of a Water Quality Assurance Revolving Fund (WQARF) site. By statute, ADEQ is required to form a CAB for each WQARF site where ADEQ is initiating a Remedial Investigation. ADEQ seeks the CAB's input in the decision-making process and works with it from the onset of the Remedial Investigation/Feasibility Study process until the requirements of the Record of Decision have been fulfilled.

**Community Involvement Area (CIA):** The mailing area of residences and businesses used in the notification for public meetings and other written notices regarding a site.

**Community Involvement Coordinator:** The ADEQ employee responsible for ensuring that ADEQ upholds and complies with all statutes and rules related to the involvement of the public and public outreach at WQARF sites. Community Involvement Coordinators manage and coordinate the work of CABs for WQARF sites.

**Community Involvement Plan (CIP):** A document that identifies techniques used by ADEQ to communicate effectively with the public during the WQARF cleanup process at a specific site. This plan describes the site history, nature and history of community involvement, and concerns expressed during community interviews. In addition, the plan outlines methodologies and timing for continued interaction between ADEQ and the public at the site.

**Contamination:** Any hazardous or regulated substance released into the environment.

**Contaminant:** Any physical, chemical, biological or radiological substance or matter present in any media at concentrations that may result in adverse effects to air, water or soil. A harmful or hazardous matter introduced into the environment that is not normally found there, or not naturally occurring.

**Early Response Action (ERA):** Refers to a remedial action performed prior to the final remedy, and often prior to the Remedial Investigation. An Early Response Action addresses current risks to public health, welfare, and the environment; protects or provides a supply of water; addresses sources of contamination; or controls or contains contamination where such actions are expected to reduce the scope or cost of the remedy needed at the site. Also referred to as an interim remedial action.

**Feasibility Study (FS):** A process to identify a reference remedy and alternative remedies that appear to be capable of achieving the Remedial Objectives for the site. It is often done as part of a two-phase investigation in conjunction with a Remedial Investigation.

**Groundwater:** Water located beneath the ground surface in soil pore spaces and in the fractures of geologic formations. A formation of rock or soil is called an aquifer when it can yield a usable quantity of water.

**Hazardous Substance:** Any material that, because of its quantity, concentration, physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment.

**Information Repository:** A collection of documents about a specific project. Information on certain WQARF sites may be available at ADEQ offices and libraries throughout the state.

**Monitoring Wells (Monitor Wells):** Wells installed for collecting samples such as groundwater and soil vapor. Analytical results from samples are used to characterize the extent of contamination, the direction of groundwater flow, and the types and quantities of contaminants present in the groundwater.

**Operation and Maintenance (O&M):** 1. Activities conducted after a WQARF site action is completed to ensure that the action is effective.

**Plume:** A well-defined area of contamination in groundwater, soil or the air often used to describe the dispersion of contamination in soil and/or groundwater.

**Potentially Responsible Party (PRP):** Those parties (individuals, corporations) identified as potentially liable for cleanup costs at a contaminated site.

**Preliminary Investigation (PI):** The process of collecting and reviewing available information about a known or suspected hazardous waste site or release.

**Proposed Remedial Action Plan (PRAP):** A document that reviews the cleanup alternatives presented in the site FS and identifies ADEQ's preferred alternative. Selection of a preferred alternative is not a closed-end commitment to use that alternative; rather, it is a way for the agency to indicate, based on experience and expertise, which alternative is the most likely course of action. ADEQ must actively solicit public review of and comment on all the alternatives under consideration.

**Public Comment Period:** A period during which the public can formally review and comment on various documents and ADEQ actions.

**Record of Decision:** A legal document that announces and explains the cleanup methods ADEQ will use at a WQARF site. The Record of Decision is based on information and technical analysis generated during the Remedial Investigation and Feasibility Study, and on consideration of comments received during the public comment period for the Proposed Remedial Action Plan.

**Remedial Action (RA):** Any action taken to investigate, monitor, assess and evaluate the release or threat of release of hazardous substances or contaminants to the environment. It may also refer to the actual "cleanup" of the environment by various removal, treatment, monitored remediation, or corrective actions. The term "cleanup" is sometimes used interchangeably with the terms remedial action, removal action, response action, remedy, remediation, or corrective action.

**Remedial Investigation (RI):** Establishes the nature and extent of the contamination and the sources; identifies current and potential impacts to public health, welfare, and the environment; identifies current and reasonably foreseeable uses of land and waters of the state; and obtains and evaluates any information necessary for identification and comparison of alternative remedial actions.

**Remedial Objective (RO):** Established remedial goals for the current and reasonably foreseeable uses of lands and waters of the state that have been or are threatened to be affected by a release of hazardous substance.

**Remediation:** Cleanup or other methods used to remove or contain a toxic spill or hazardous materials.

**Remedy:** Cleanup method chosen for a site.

**Responsible Party:** An individual or company (e.g., an owner, operator, transporter, or generator of hazardous waste) that is responsible for the contamination at a WQARF site. Whenever possible, responsible parties are required to clean up hazardous waste sites they have contaminated.

**Responsiveness Summary:** A summary of oral and written comments (and ADEQ responses to those comments) received during the public comment period.

**Superfund:** The program operated under the legislative authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) that funds and carries out U.S. Environmental Protection Agency solid waste emergency and long-term removal and remedial activities. These activities include establishing the National Priorities List, investigating sites for inclusion on the list, determining their priority, and conducting and/or supervising cleanup and other remedial actions. It provides for the cleanup of hazardous substances released into the environment, regardless of fault. The term Superfund also is used to refer to cleanup programs designed and conducted under CERCLA and its subsequent amendments.

**Tetrachloroethene or Tetrachloroethylene or Perchloroethene (PCE):** A clear, colorless, liquid with a chloroform or sweet odor and a low boiling point; a solvent used for dry cleaning; degreasing and drying metals and other solids; dissolving waxes, greases, oils, fats, and gums; and in other industrial applications. PCE is a potential occupational carcinogen. Evaporation of PCE increases as temperature increases.

**Trichloroethene or Trichloroethylene (TCE):** A colorless liquid used as a solvent, metal degreasing agent, and in other industrial applications.

**Water Quality Assurance Revolving Fund (WQARF):** Also known as the State Superfund, WQARF is the program and funding that is used to address hazardous substance releases within the state that are not covered by other specific programs.